

(C) WPI / DERWENT

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CPY - MITK

DC - A23 A96

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IC - C08G63/06

MC - A02-A00A A05-E02 A09-A07 A10-D05

PA - (MITK) MITSUI TOATSU CHEM INC

PN - JP7173264 A 19950711 DW199536 C08G63/06 005pp

PR - JP19930319492 19931220

XA - C1995-123541

XIC - C08G-063/06

AB - J07173264 Prepn. of poly(hydroxycarboxylic acid) having a wt. average mol. wt. of more than about 15000, comprises condensn. reaction of hydroxycarboxylic acid esters, a mixt. thereof, or oligomers thereof in the presence of a catalyst.

- The process is carried out pref. in the presence of an organic solvent and includes additionally charging the organic solvent contg. an alcohol of a lesser amt., pref. of below 50 ppm., than that contained in a distilling off organic solvent. Pref. the catalyst is a tin or titanium cpd. The organic solvent is diphenyl ether. The hydroxycarboxylic acid is lactic, glycolic, 2-hydroxyisobutyric, 3-hydroxybutyric, 4-hydroxybutyric, or 6-hydroxycaproic acid.

- USE - Poly(hydroxycarboxylic acid) is a useful polymer as a substitute for medical materials and general purpose resins.

- ADVANTAGE - An aliphatic poly(hydroxycarboxylic acid) can be relatively easily hydrolysed in the presence of water, or decomposed by a microorganism, furthermore hydrolysed and absorbed even in vivo, providing a biodegradable polymer.

- (Dwg.0/0)

IW - PREPARATION POLY HYDROXY CARBOXYLIC ACID WEIGHT AVERAGE MOLECULAR WEIGHT ABOVE COMPRISE CONDENSATION REACT HYDROXY CARBOXYLIC ACID ESTER PRESENCE CATALYST

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NC - 001

OPD - 1993-12-20

ORD - 1995-07-11

PAW - (MITK) MITSUI TOATSU CHEM INC

TI - Prepn. of poly(hydroxy:carboxylic acid) having wt. average molecular wt. of above 15000 - comprises condensn. reaction of hydroxy:carboxylic acid ester(s) in the presence of a catalyst

A01 - [001] 017 ; G1445-R D01 D63 F41 F27 F26 ; H0000 ; H0011-R ; P0839-R F41 D01 D63 ; L9999 L2573 L2506 ; L9999 L2528 L2506 ; L9999 L2664 L2506 ; L9999 L2197 L2186 ;

- [002] 017 ; G2108-R D01 D60 F35 ; R00448 G2108 D01 D11 D10 D50 D60 D82 F27 F26 F36 F35 ; R00009 G2108 D01 D11 D10 D50 D60 D83 F27 F26 F36 F35 ; H0000 ; H0011-R ; P0839-R F41 D01 D63 ; L9999 L2573 L2506 ; L9999 L2528 L2506 ; L9999 L2664 L2506 ; L9999 L2186-R ;

- [003] 017 ; G2120 G2108 D01 D60 F35 D11 D10 D50 D84 ; R24028 P0599 D01 D11 D10 D50 D63 D84 F41 ; H0000 ; H0011-R ; P0839-R F41 D01 D63 ; L9999 L2573 L2506 ; L9999 L2528 L2506 ; L9999 L2664 L2506 ; L9999 L2186-R ;

- [004] 017 ; G2120 G2108 D01 D60 F35 D11 D10 D50 D86 ; H0000 ;

H0011-R ; P0839-R F41 D01 D63 ; L9999 L2573 L2506 ; L9999 L2528
 L2506 ; L9999 L2664 L2506 ; L9999 L2186-R ;
 - [005] 017 ; ND04 ; ND03 ; B9999 B5094 B4977 B4740 ; Q9999 Q7987-R ;
 B9999 B3021 B3010 ; B9999 B3145 B3010 ; N9999 N6779 N6735 N6655 ;
 N9999 N6860 N6655 ;
 - [006] 017 ; D00 D01 Sn 4A Ti 4B Tr ; C999 C000-R ; C999 C306 ;
 C999 C102 C000 ;
 - [007] 017 ; D01 F26-R ; R00739 D01 D19 D18 D32 D50 D92 F34 ; A999
 A475 ;
 A02 - [001] 017 ; G1445-R D01 D63 F41 D11 D10 D50 D85 F27 F26 ; H0000 ;
 P0839-R F41 D01 D63 ; L9999 L2573 L2506 ; L9999 L2664 L2506 ; L9999
 L2197 L2186 ;
 - [002] 017 ; K9723 ; K9949 ; K9461 ;
 - [003] 017 ; ND04 ; ND03 ; B9999 B5094 B4977 B4740 ; Q9999 Q7987-R ;
 B9999 B3021 B3010 ; B9999 B3145 B3010 ; N9999 N6779 N6735 N6655 ;
 N9999 N6860 N6655 ;
 - [004] 017 ; D00 D09 Sn 4A ; C999 C102 C000 ; C999 C306 ;
 - [005] 017 ; R00270 D01 D11 D10 D50 D81 F27 F26 ; R00739 D01 D19 D18
 D32 D50 D92 F34 ; A999 A475 ;